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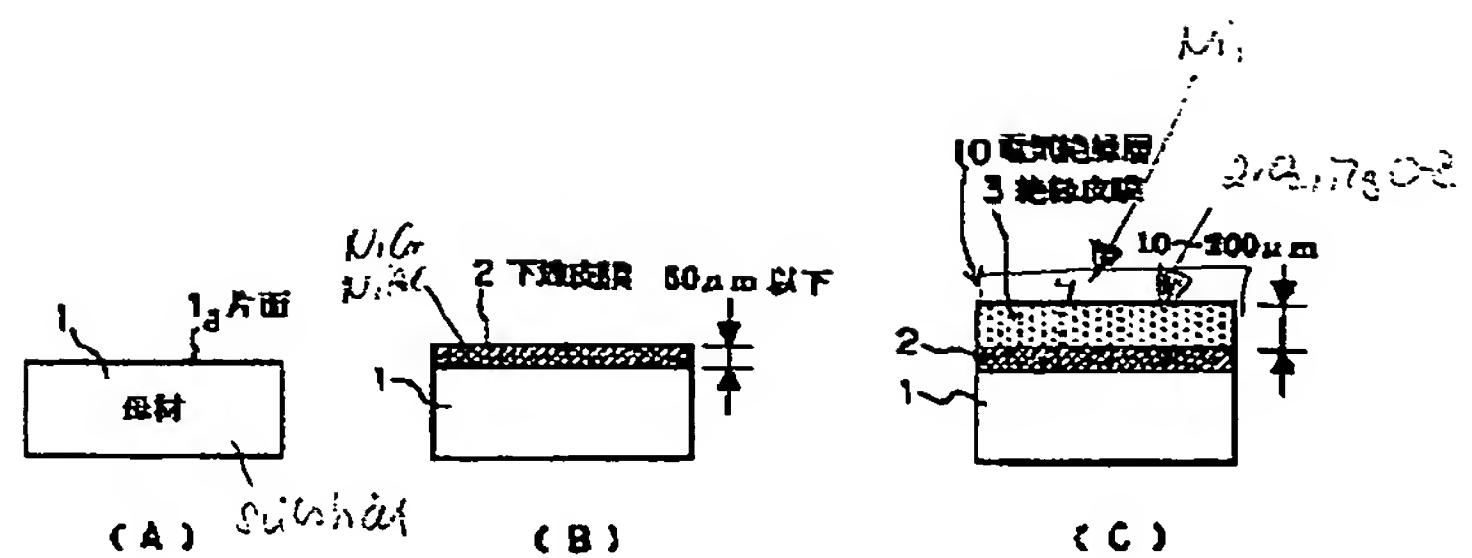
APPLICATION DATE : 16-03-98
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TITLE : METALLIC CARRIER FOR
ELECTRICALLY HEATING TYPE
CATALYTIC DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To apply a $\geq 10 \mu\text{m}$ thick insulating coating film on an insulating plate for forming a metallic carrier for electrically heating type catalytic device and to enable to solder the plate for abutting on the surface having the insulating coating film.

SOLUTION: An undercoating film 2 having $\leq 50 \mu\text{m}$ thickness is formed by melt-spraying a Ni-Cr or Ni-Al on the surface 1a of a base material 1 of the insulating plate. A zirconium oxide MgO-ZrO₂ (zirconia) stabilized by a stabilizing element is melt-sprayed thereon to form the 10-200 μm thickness insulating coating film and further, a soldering coating film 4 having $\leq 50 \mu\text{m}$ thickness is formed thereon by melt-spraying a soldering material consisting essentially of Ni.

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